SASKATCHEWAN CALCULUS 30 · UNIT F

Integration and Area Under Curves — Practice Test

Saskatchewan Calculus 30 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Evaluate the definite integral from 0 to 6 of 1 dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Evaluate the definite integral from 1 to 5 of 2x dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The area under y = x from x = 0 to x = 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An antiderivative of x^3 is**

- **A** $\frac{x^4}{4}$
- **B** x^4
- **C** $\frac{x^3}{3}$
- **D** $3x^2$

Understand It with Pulse | Flag a mistake

5 **An antiderivative of x^4 is**

- **A** x^5
- **B** $\frac{x^5}{5}$
- **C** $\frac{x^4}{4}$
- **D** $4x^3$

Understand It with Pulse | Flag a mistake

6 **Evaluate the definite integral from 0 to 2 of x^1 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Evaluate the definite integral from 0 to 6 of x^4 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The definite integral of a function from a to a is**

A 1

B a

C 0

D 2a

Understand It with Pulse | Flag a mistake

9 **Evaluate the definite integral from 0 to 1 of x^5 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Evaluate the definite integral from 0 to 4 of 1 dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Evaluate the definite integral from 0 to 7 of 1 dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Evaluate the definite integral from 0 to 3 of x^3 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Evaluate the definite integral from 0 to 4 of 5x dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Evaluate the definite integral from 0 to 4 of x^1 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Evaluate the definite integral from 1 to 3 of 3x dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Evaluate the definite integral from 0 to 1 of x^3 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 The area under $y = x$ from $x = 0$ to $x = 2$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

18 An antiderivative of x^5 is

A x^6

B $\frac{x^5}{5}$

C $5x^4$

D $\frac{x^6}{6}$

Understand It with Pulse | Flag a mistake

19 Evaluate the definite integral from 0 to 5 of $x^3\,dx$.

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Evaluate the definite integral from 0 to 5 of x^1 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Evaluate the definite integral from 0 to 2 of x^2 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Evaluate the definite integral from 0 to 1 of x^6 dx .**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Evaluate the definite integral from 1 to 5 of 4x dx.**

ANSWER _____

Understand It with Pulse | Flag a mistake

24

Evaluate the definite integral from 0 to 2 of 1x dx.

ANSWER

Understand It with Pulse | Flag a mistake

25

Evaluate the definite integral from 0 to 3 of x^1 dx .

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	6	**10.**	4	**19.**	156.25
2.	24	**11.**	7	**20.**	12.5
3.	4.5	**12.**	20.25	**21.**	2.67
4.	A	**13.**	40	**22.**	0.14
5.	B	**14.**	8	**23.**	48
6.	2	**15.**	12	**24.**	2
7.	1555.2	**16.**	0.25	**25.**	4.5
8.	C	**17.**	2		
9.	0.17	**18.**	D		

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